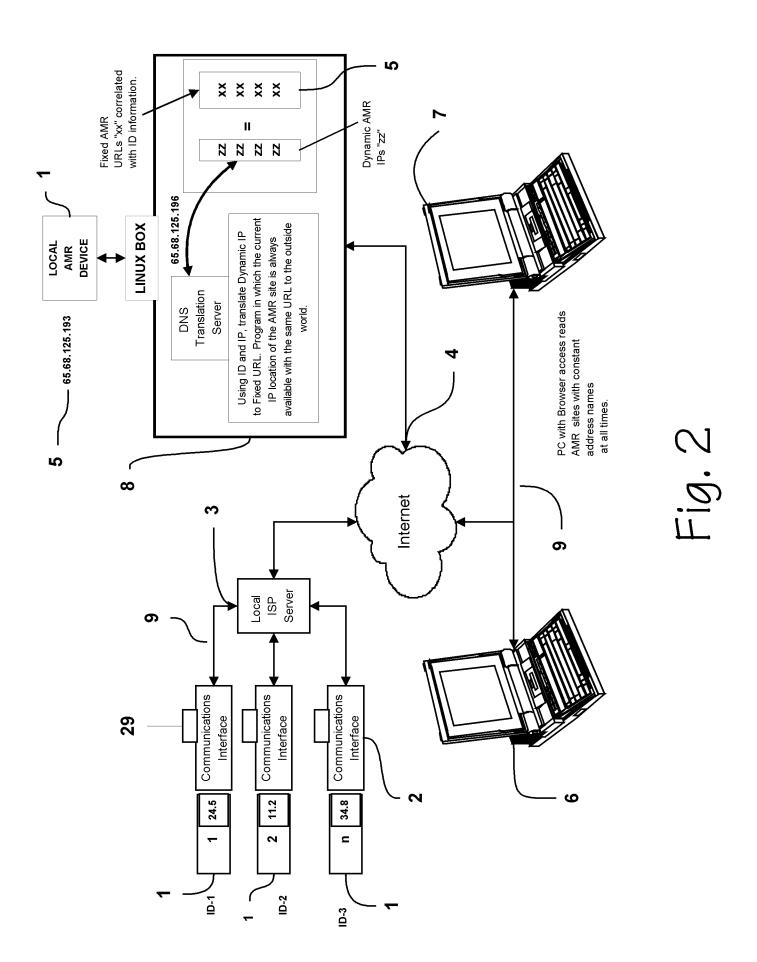
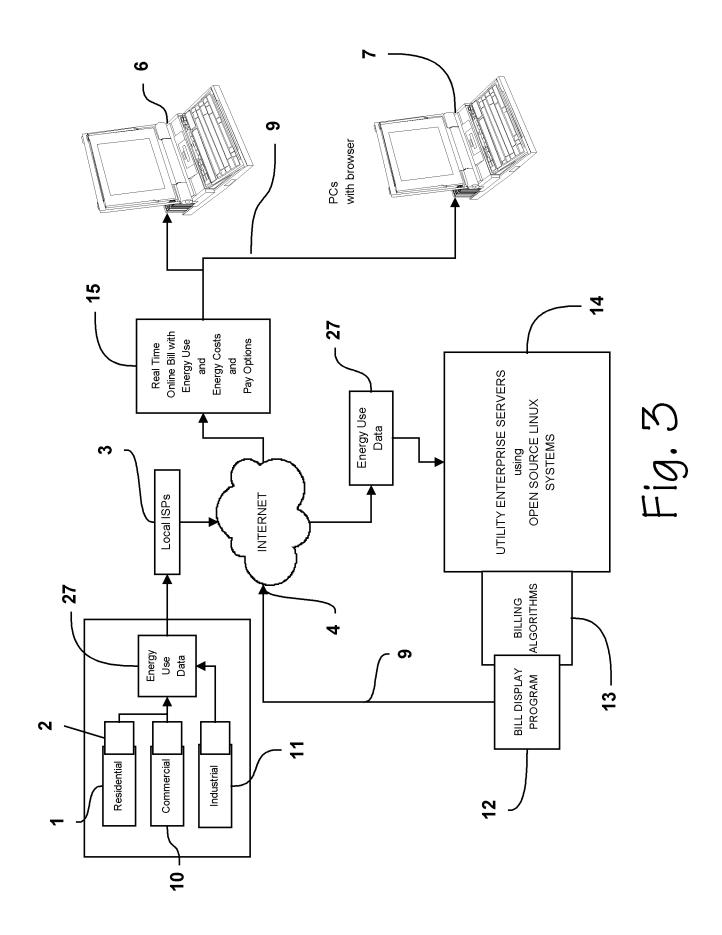
Individual Meter Data Read from Automatic Meter Reader System Devices

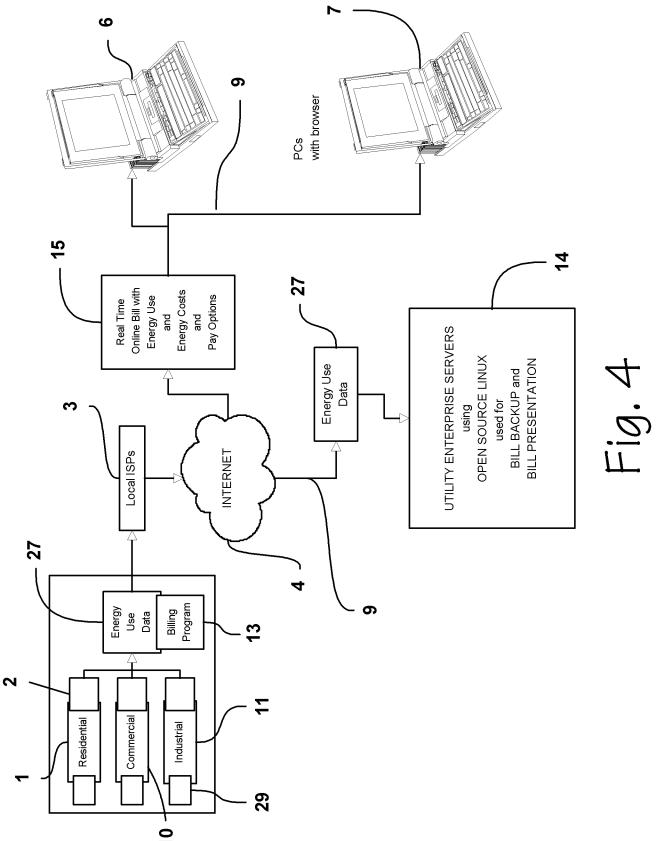
Data Transferred to Utility Servers for Bill Computation or

Bill calculated at meter by intelligent device.
In either case: Billing Algorithm
Selects the appropriate
Billing Calculation

Using the Internet the computed Bill is presented and displayed at the meter site by the AMR Device or on the utility website for user to view in real time.







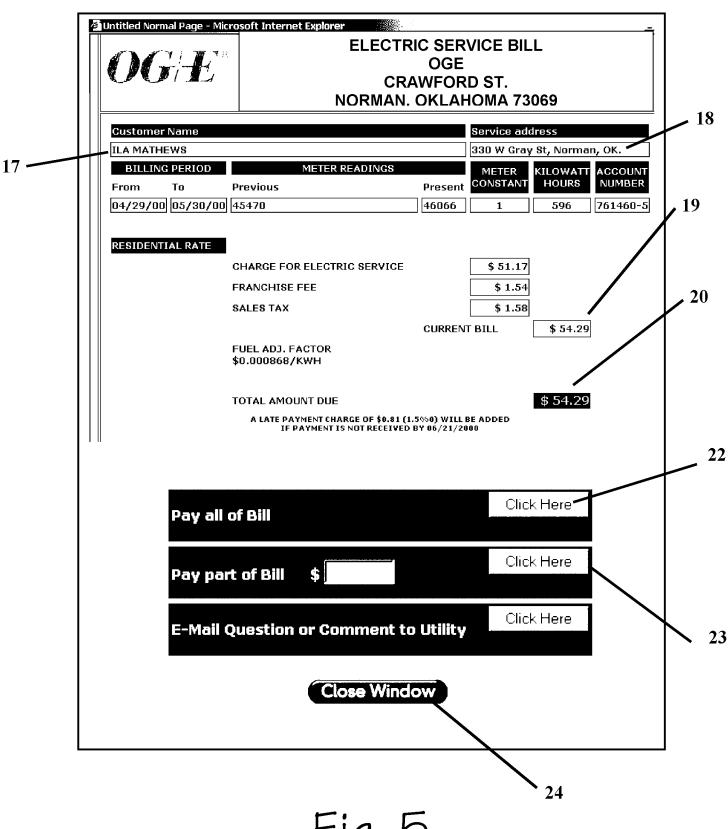


Fig. 5

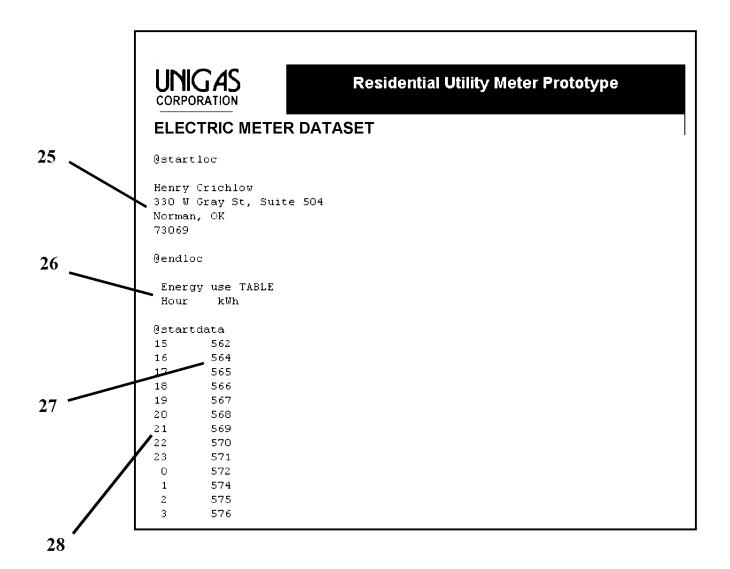


Fig. 6

Possible Modes

- Server mode meter device reads data and sends to server to compute, & display bill as webpage on company server.
- Client mode meter device computes bill, displays bill online as webpage at meter site. Client meter behaves like a microserver device. =
- Hybrid Server mode Meter device computes bill, send info to server for display and bill payment. Bill is displayed at both meter site and company server site. =

Server Based - bill is computed, presented, stored, displayed and paid at company server

Action Implemented Step

- Meter energy use data is obtained by metering device
- Usage data sent via isp and internet to company server
- Company server selects the appropiate billing algorithm
- Company server program computes bill
- Bill data is converted to HTML or XML code
- Bill data is displayed on website as online bill − 0 0 4 v 0
- Process loops continuously from 1 through 6 to provide real time updating of billing data /
- Customer logs on to website ∞ o €
 - Customer reads bill online
- Customer decides to pay bill online or pay via offline channels like mail

Client Based - bill is computed, presented, stored, displayed and paid at meter microserver

Action Implemented Step

- Meter energy use data is obtained by intelligent metering device
 - Billing algorithm is coded into program at meter site
 - Client device computes bill
- Bill data is sent to company server via internet and stored on company server as backup e 4 с о
 - Bill data is converted to HTML or XML code at client microserver
 - Bill data is displayed online at webpage on client microserver
- Process loops continuously from 1 through 6 to provide real time updating of billing data /
- Customer logs on to website via internet 8 o C
- Customer reads bill online at meter microserver
- Customer decides to pay bill online or pay via offline channels like mail

Hybrid Based - bill is computed, presented, stored, displayed and paid at company serve and or meter site.

Action Implemented Step

- Meter energy use data is obtained by intelligent metering device
- Billing algorithm is coded into computer software at meter site
- Client device computes bill, behaves like a micro-server
- Action (1)
- Computed bill data is sent to company server via internet 4507
- Computed bill data is converted to HTML or XML code on company server
- Computed bill data is displayed on website as online bill on company server
- Action (2)
- Computed bill Data is stored at client meter site
- Computed bill data is converted to HTML or XML code on client meter site
- Computed bill data is displayed on website at meter microserver as online bill ω o 2 T
- Process loops continuously from 1 through 11 to provide real time updating of billing dat 7
- Customer logs on to internet and finds websites at meter or at company URL locations
- Customer reads bill online either at company server or at meter microserver itself ε 4 ε
 - Customer decides to pay bill online or pay via offline channels like mail

PRICES:

Customer Charge: \$6.50 per customer per month

Time-of-Use Meter Charge: \$6.00 per customer per month for

five Summer Season months.

Energy Charge:

The five OG&E Revenue Months of June through October. Summer Season:

On-Peak Hours: 20.55c per kWh per month. From June 1

through September 30, beginning each day at 1:01 PM through 7:00 PM local time, excluding Saturdays, Sundays, Independence Day (as observed)

and Labor Day.

Off-Peak Hours: 3.18c per kWh per month. All hours not defined as

On-Peak hours.

Winter Season: The seven OG&E Revenue Months of November through

May of the succeeding year.

First 600 kWh per month: 7.8 c per kWh.

All additional kWh per month: 3.18c per kWh.

Customer Charge/Month TOU Meter Charge/Month				\$6.50 \$6.00	(a) (b)
Energy Charge - Summer Season					
	On Peak Hours	Costs	\$0.2055	KwHr/Mo	(c)
	Off Peak Hours	Cost	\$0.0318	KwHr/Mo	(d)
Energy Use					
	On Peak Hours KwHr		2,345	KwHr	(e)
	Off Peak Hours KwHr 48		488	KwHr	(f)
	Total Energy Us	e	2,833	KwHr	(g)
Energy Costs					
	Off Peak Use		\$481.90		(h)
	Off Peak Use		\$15.52		(i)
	Total Energy		\$497.42		(j)
Total Costs =		\$509.92			(k)
Calculation Algorithm : (k) = (a) + (b) $x [(e) x (c) + (f) x (d)]$					

Fig. 12

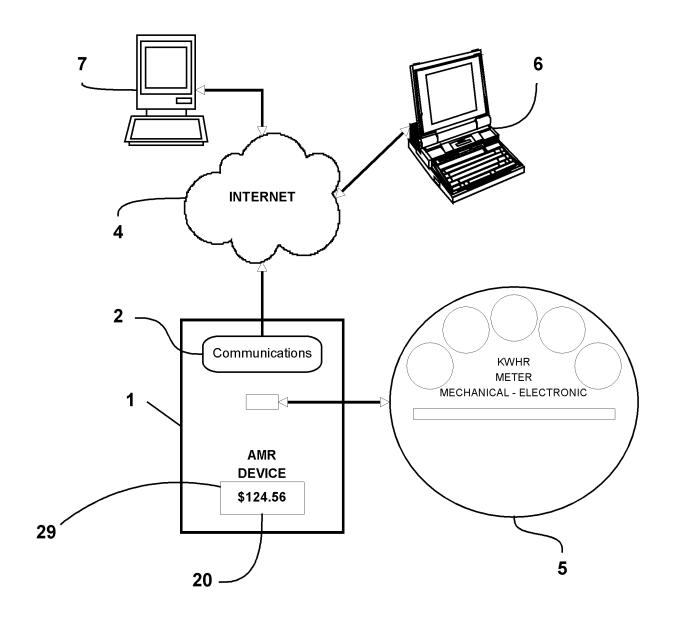


Fig. 13